

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,073 DTD \_\_\_\_\_

CHANGE NO: 36

MODEL: 22-22 (Convair "880")

<b>TITLE:</b> Specification Administrative Change (Revision to Lavatory Coat Hook)		
<b>ORIGIN:</b> Convair initiated		
<b>REASON FOR CHANGE:</b> To clarify the intent of the specification.		
EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	INCH LB.
0	0	0
<b>EFFECT ON GUARANTEED PERFORMANCE: *</b> <div style="text-align: center;">None</div>		
* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL  ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:		<div style="font-size: 2em; font-family: cursive;">Ready 7/2/61</div> <div style="font-size: 1.5em; font-family: cursive; transform: rotate(-45deg); position: absolute; right: 0; top: 0;">Aug 7/2/61</div> <div style="text-align: center; margin-top: 20px;">ENGINEERING APPROVAL</div>
<b>LATEST DATE OF ACCEPTANCE:</b>		<b>AIRPLANES AFFECTED:</b>
<b>SPECIAL PROVISIONS:</b>		<b>EFFECT ON PRICE PER AIRPLANE:</b> RECURRING: _____ NON-RECURRING: _____ TOTAL: _____

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

Title: Specification Administrative Change (Revision to Lavatory Coat Hook)

Origin: Convair initiated

Reason for Change: To clarify the intent of the specification.

Description of Change:

Page 84, Paragraph 3.19.2.2.3 MISCELLANEOUS LAVATORY EQUIPMENT:

Revise below item as follows:

From: "One coat hook (folding-type on lavatory door)"

To: "One coat hook"

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Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

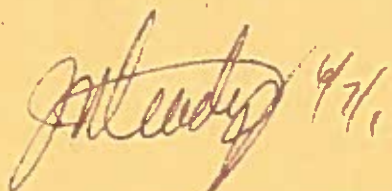
DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,072 DTD \_\_\_\_\_

CHANGE NO.: 35

MODEL: 22-4 (Convair "880")

TITLE: <u>Specification Administrative Change (Revision to Paragraph 3.2.2.1)</u>		
ORIGIN: <u>Convair initiated</u>		
REASON FOR CHANGE: <u>Specification clarification.</u>		
EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY  <div style="text-align: center;">0</div>	OPER. WT. EMPTY  <div style="text-align: center;">0</div>	<div style="text-align: center;">0</div> <div style="text-align: right;">INCH LB.</div>
EFFECT ON GUARANTEED PERFORMANCE: *  <div style="text-align: center;">None</div>		
* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL  ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:		 ENGINEERING APPROVAL
LATEST DATE OF ACCEPTANCE:		AIRPLANES AFFECTED:
SPECIAL PROVISIONS:		EFFECT ON PRICE PER AIRPLANE: RECURRING: _____ NON-RECURRING: _____ TOTAL: _____

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 35

Title: Specification Administrative Change (Revision to Paragraph 3.2.2.1)

Origin: Convair initiated

Reason for Change: Specification clarification.

Description of Change:

Page 9, Paragraph 3.2.2.1 COLOR CODING:

Revise the paragraph as follows:

From: "COLOR CODING: All sections of plumbing shall be color coded and banded in accordance with Military Standards and, in addition, marking shall indicate the direction of flow and the purpose of the line, except for engine and pylon fluid system hoses. The part number of each tubing assembly shall be identified. Color bands and part number identifications shall be plastic tape in accordance with Standard AND 10375."

To: "COLOR CODING: All sections of plumbing, except engine and within fuel tanks, shall be color coded and banded. All plumbing shall indicate the direction of flow and the purpose of the line. The part number of each tubing assembly shall be identified. Color bands shall be plastic tape in accordance with Standard AND 10375."

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO. ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,026 DTD 16 May 1961

CHANGE NO. 34

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Change Quantity of Spare Wires to No. 3 Pod)

ORIGIN: Convair initiated

REASON FOR CHANGE: Two of the spare wires from No. 3 pod utilized in connection with the main gear brake anti-skid system.

EFFECT ON WEIGHT \*

EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

0

0

0

INCH L.B.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Ready 5/18/61* *Aug 5/14/61*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

FD-131 (Rev. 6-15-54)

CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 34

Title: Specification Administrative Change (Change Quantity of Spare Wires to No. 3 Pod)

Origin: Convair initiated

Reason for Change: Two of the spare wires from No. 3 pod utilized in connection with the main gear brake anti-skid system.

Description of Change:

Page 53, Paragraph 3.16.5.4 WIRE ROUTING:

Change the last sentence in the paragraph to read as follows:

"Eight spare No. 20 wires shall be installed from the main circuit breaker to each pod, except No. 3 pod, which shall have six spare wires.

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO. ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER. Air Asia Company, Ltd.

MCL 12,071 DTD \_\_\_\_\_

CHANGE NO. 33

MODEL. 22-4 (Convair "880")

TITLE: Specification Administrative Change (Delete Literature Pockets from Cabin Partition and Movable Coat Dividers)

ORIGIN By AACL/Convair mutual agreement.

REASON FOR CHANGE: As above

EFFECT ON WEIGHT *		EFFECT ON BALANCE *	
GUAR. WT. EMPTY	OPER. WT. EMPTY		
0	0	0	INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Handwritten signature]*  
1/4/61  
*[Handwritten signature]*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 33

Title: Specification Administrative Change (Delete Literature Pockets from Cabin Partition and Movable Coat Dividers)

Origin: By AACL/Convair mutual agreement.

Reason for Change: As above

Description of Change:

Page 81, Paragraph 3.19.1.1.6 PASSENGER SEATS:

Revise the last sentence as follows:

From: "Literature pockets shall be installed on the aft face of both the main cabin forward partition, the movable coat compartments and directly below the food trays in the passenger seat backs."

To: "Literature pockets shall be installed in the passenger seat backs directly below the food trays."

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.. ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,070 DTD \_\_\_\_\_

CHANGE NO. 32

MODEL: 22-4 (Convair "880")

TITLE: **Specification Administrative Change (Landing Gear Pin Indicator Lights)**

ORIGIN: **Convair initiated**

REASON FOR CHANGE: **To specify that subject indicator lights are installed.**

EFFECT ON WEIGHT \*

EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

0

0

0

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

**None**

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 4/11/64

*[Signature]* 4/14/64

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Air Asia Company Ltd.  
Change No. 32

Title: Specification Administrative Change (Landing Gear Pin Indicator Lights)

Origin: Convair initiated

Reason for Change: To specify that subject indicator lights are installed.

Description of Change:

Page 21, Paragraph 3.8.1.5 - LANDING GEAR SAFETY LOCK PINS:

Add the following to the end of the paragraph:

"Indicator warning lights shall be provided in the flight engineer's panel and shall be illuminated when the "safety lock" pins are inserted in the gear".

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,069 DTD \_\_\_\_\_

CHANGE NO: 31

MODEL: 22-4 (Convair "880")

TITLE: **Specification Administrative Change (Miscellaneous Design Improvement Changes)**

ORIGIN: **Convair initiated**

REASON FOR CHANGE: **Product improvement**

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
0	0	0 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 6/27/61  
*[Signature]* Aug 1/2/61

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



Title: Specification Administrative Change (Miscellaneous Design Improvement Changes)

Origin: Convair initiated

Reason for Change: Product improvement

Description of Change:

Page 3a, GENERAL ARRANGEMENT:

Replace above illustration in the specification with Enclosure (A) which shows Krueger Flap installation between inboard pylon and fuselage, and trailing edge inboard flap extension.

Page 26, Paragraph 3.10.1.3 RUDDER SYSTEM:

Insert the following sentence after the third sentence:

"In addition a hydraulically-operated servo unit powered from one hydraulic system shall be installed in the pedal linkage, in the nose wheel well, to reduce rudder pedal forces."

Page 27, Paragraph 3.10.2.1 LIFT AND DRAG INCREASING DEVICE SYSTEMS:

Delete the paragraph and substitute the following:

"LIFT AND DRAG INCREASING DEVICE SYSTEMS: The trailing edge flaps and leading edge slats and flaps shall be operated by hydraulic power controlled by a single lever on the pilot's pedestal. The leading edge slats and flaps shall be operated through torque tubes from a gear box which is powered by two hydraulic motors, one motor connected to each hydraulic system. The trailing edge flaps shall be operated through torque tubes from a gear box which is powered by either of two motors, one motor connected to each hydraulic system. By means of "no-back" type devices incorporated in the screw jacks, each control system shall be irreversible to prevent flap motion from airload. Full trailing edge flap deflection and leading edge slat and flap extension shall be obtainable from either hydraulic system. A monitoring system shall be provided to preclude asymmetrical positioning of the trailing edge flap in the event of mechanical failure. A pair of lights, one amber and one green, shall be installed on the center instrument panel for each right and left hand set of leading edge devices (slats and flaps). Lights shall illuminate "green" when the devices have fully extended and shall illuminate "amber" while the devices are in transit."

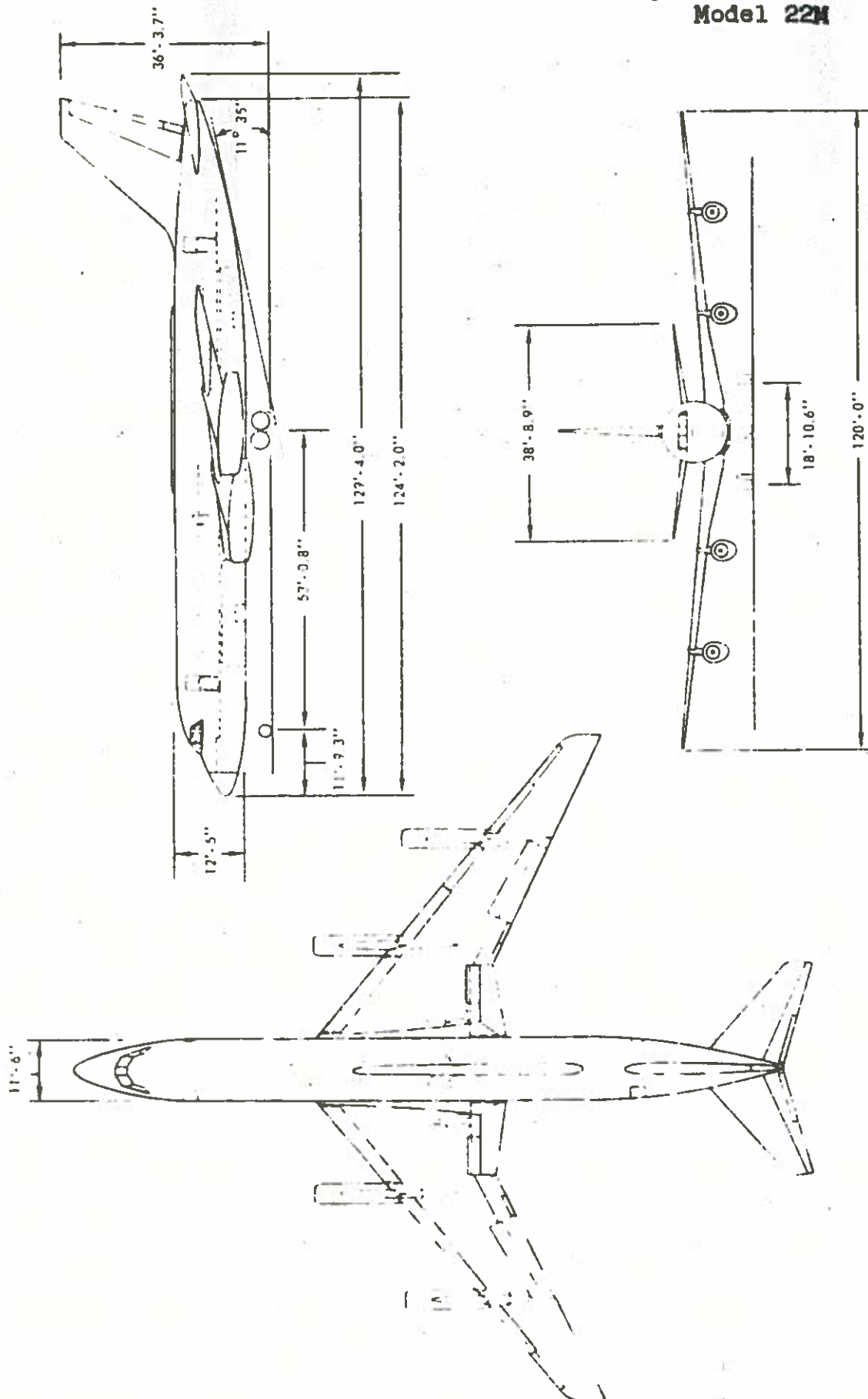
Page 49a, HYDRAULIC SYSTEM:

Replace above illustration in the specification with Enclosure (B) which shows 100 percent flap power available from either No. 1 or No. 2 Systems, rudder pedal boost, center section fuel boost and jettison, and deletes "TEMP. CONTROL" callout.

Enclosure: (A) One copy Page 3a - GENERAL ARRANGEMENT (Revised)

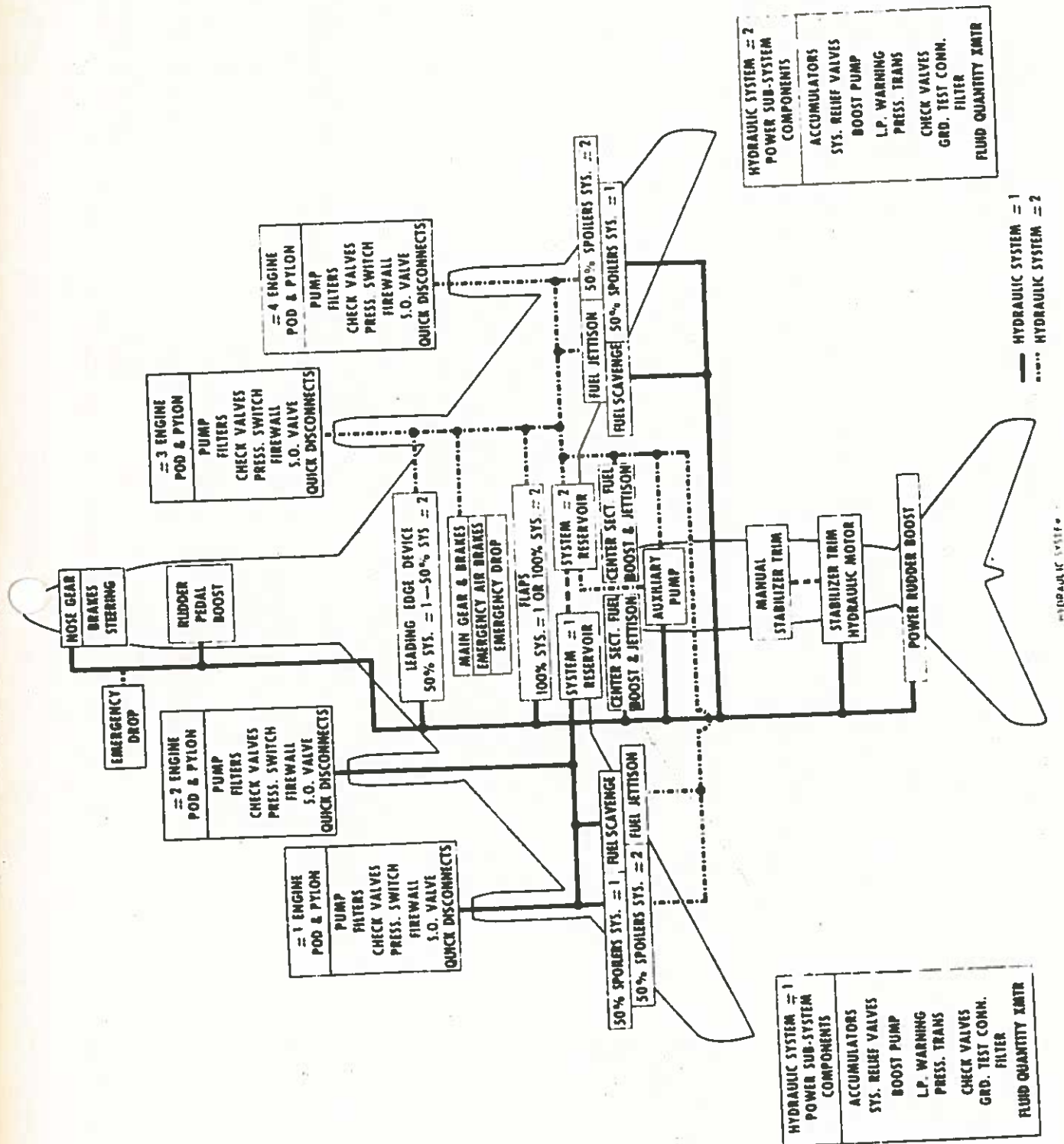
Enclosure: (B) One copy Page 49a - HYDRAULIC SYSTEM (Revised)

Effect on Weight Emph: 0  
Effect on Balance: 0  
Effect on Performance: None



GENERAL ARRANGEMENT





# C O N V A I R

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,025 DTD 22 February 1961

CHANGE NO: 30

MODEL: 22-4 (Convair "880")

TITLE: Buffets, Weight Revision of

ORIGIN: Convair initiated based on "Nordskog Static Test Report" (undated)

REASON FOR CHANGE: To show actual weight of buffets in specification as defined by Nordskog Report.

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
+94.0 lb	+94.0 lb	+6,500 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*  
None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

This CCP supersedes and cancels CCP No. 17.

*[Signature]* 3/1/61

*[Signature]* 3/1/61

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE: \_\_\_\_\_

AIRPLANES AFFECTED: \_\_\_\_\_

SPECIAL PROVISIONS: \_\_\_\_\_

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 30

Title: Buffets, Weight Revision of

Origin: Convair initiated based on "Nordskog Static Test Report"  
(undated)

Reason for Change: To show actual weight of buffets in specification  
as defined by Nordskog Report.

Description of Change:

Page A-1, APPENDIX I-C, CUSTOMER FURNISHED - CONVAIR INSTALLED:

Revise the below item under Description as follows:

From: "4 Buffet 914.0"

To: "4 Buffet 1008.0"

Effect on Weight Empty: +94.0 pounds  
Effect on Balance: +6,500 inch-pounds  
Effect on Performance: None

The following shall not appear in the specification language:

The following are the buffet weights and capacities supplied by  
Nordskog:

<u>Buffet No.</u>	<u>Weight (lb)</u>	<u>Capacity (lb)</u>	<u>Loaded Weight</u>
1	389	355	744
2	211	504	715
3	219	525	744
4	189	419	608
Total	1,008	1,803	2,811



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

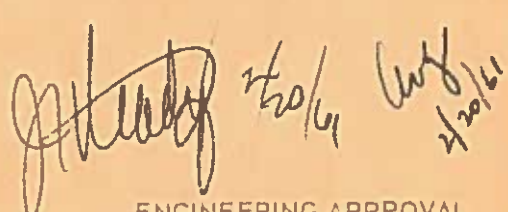
DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,068 DTD \_\_\_\_\_

CHANGE NO: 29

MODEL: 22-4 (Convair "880")

TITLE: <u>Specification Administrative Change (Revision to Passenger Seat Back Movement)</u>		
ORIGIN: <u>Convair initiated</u>		
REASON FOR CHANGE: <u>To make specification language agree with actual seat back positioning capability.</u>		
EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY  0	OPER. WT. EMPTY  0	0 INCH LB.
EFFECT ON GUARANTEED PERFORMANCE: *  None		
* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL  ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:		 ENGINEERING APPROVAL
LATEST DATE OF ACCEPTANCE:		AIRPLANES AFFECTED:
SPECIAL PROVISIONS:		EFFECT ON PRICE PER AIRPLANE: RECURRING: _____ NON-RECURRING: _____ TOTAL: _____

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 29

Title: Specification Administrative Change (Revision to Passenger  
Seat Back Movement)

Origin: Convair initiated

Reason for Change: To make specification language agree with actual  
seat back positioning capability.

Description of Change:

Page 81, Paragraph 3.19.1.1.6.1 SEAT BACK MOVEMENT:

Revise the paragraph to read as follows:

"Each reclining seat shall be designed so that pressure applied on the aft side of the seat back will override the recline control lock without additional manual operation, and fold the seat back forward to its normal upright position. This pressure on the seat back shall not exceed 25 pounds. The seat back shall fold to approximately 30 degrees forward of the vertical position by applying a load of not less than 30 pounds, or more than 35 pounds, at the top of aft side of the seat back without removing the center arm rest. The seat back may be further folded to approximately a horizontal position by removing the center arm rest. Seat back positions shall be as follows:

First Class Seats:

Normal Upright:	15 degrees aft of vertical
Maximum Recline:	38 degrees aft of vertical (With integral folding food trays installed)
Recline:	38 and 45 degrees aft of vertical (With integral folding food trays not installed)

Coach Seats:

Normal Upright	15 degrees aft of vertical
Adjustable stop at:	23 and 38 degrees aft of vertical"

Effect on Weight Empty:	0
Effect on Balance:	0
Effect on Performance:	None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,067 DTD \_\_\_\_\_

CHANGE NO: 28

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Revision to Paragraphs 3.10.1.5.1 and 3.11.8)

ORIGIN: Convair initiated

REASON FOR CHANGE: To clarify the intent of subject paragraphs

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
0	0	0 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

**None**

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 7/6/1 *[Signature]* 2/3/61  
ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_  
NON-RECURRING: \_\_\_\_\_  
TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



Title: Specification Administrative Change (Revision to Paragraphs 3.10.1.5.1 and 3.11.8)

Origin: Convair initiated

Reason for Change: To clarify the intent of subject paragraphs.

Description of Change:

Page 26, Paragraph 3.10.1.5.1 - STABILIZER TRIM CONTROL:

Delete the last two sentences and substitute the following:

"A switch, guarded in the "On" position, shall be installed on the pedestal to shut off all hydraulic power to the stabilizer screw jack. A three-position momentary switch shall be installed on the pedestal which, after the hydraulic shutoff switch is moved to "OFF"; operates the standby electrical-mechanical stabilizer trim control. In addition, hand cranks shall be installed on the pedestal for emergency manual stabilizer trim control".

Page 29, Paragraph 3.11.8 - INSPECTION AND MAINTENANCE:

Delete the last sentence and substitute the following:

"Each engine QEC (quick engine change build-up) shall be interchangeable and replaceable as a complete assembly, except for reverser cascades, and certain accessories which may not be required on individual installations".

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,066 DTD \_\_\_\_\_

CHANGE NO: 27

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Revision to Paragraph 3.17.1.7.2)

ORIGIN: Convair initiated

REASON FOR CHANGE: To clarify the intent of Paragraph 3.17.1.7.2.

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
0	0	0 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*  
None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 1/31/61

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:	AIRPLANES AFFECTED:
----------------------------	---------------------

SPECIAL PROVISIONS:	EFFECT ON PRICE PER AIRPLANE:
	RECURRING: _____
	NON-RECURRING: _____
	TOTAL: _____

ACCEPTED \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.



Title: Specification Administrative Change (Revision to Paragraph 3.17.1.7.2)

Origin: Convair initiated

Reason for Change: To clarify the intent of Paragraph 3.17.1.7.2.

Description of Change:

Page 73, Paragraph 3.17.1.7.2 POWER CONTROLS:

Delete the paragraph and substitute the following:

"3.17.1.7.2 POWER CONTROLS: One "NORMAL" and one "ESSENTIAL" switch, located accessible to both pilots, shall control the ac and dc power to the radio equipment. The "NORMAL" switch shall control the weather radar, the marker beacon, selective call systems No. 1 and No. 2, glide slope No. 2, navigation instrument transformer No. 2, VHF navigation No. 2, radio compass No. 2, VHF communication receiver No. 2, VHF communication transmitter No. 2, HF communication No. 2, DMET No. 1 and No. 2, if installed, ATC transponder No. 1 and No. 2, if installed, and Doppler system No. 2, if installed. The "ESSENTIAL" switch shall control the VHF communication receiver No. 1, VHF communication transmitter No. 1, VHF navigation No. 1, glide slope No. 1, radio compass No. 1, navigation instrument transformer No. 1, HF communication No. 1, and the Doppler system No. 1. The emergency dc bus, through suitable circuit breakers, shall power the audio selector panels, the public address amplifier, the interphone, the pilot compartment speaker, the flight data recorder, and the tape reproducer, if installed. All No. 1 normal radio equipment shall be supplied by a separate ac and dc line. All No. 2 normal radio equipment shall be supplied by a second separate ac and dc line. Protection shall be provided for each line. The power supply, feeder wires, circuit protection for equipment which back up each other functionally shall be separated in a manner that will preclude operation failure of both if any one circuit protective device feeder wire or power supply fails. Illumination shall be provided for the circuit breakers."

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.

MCL 12,065 DTD \_\_\_\_\_

CHANGE NO: 26

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Revision to Auxiliary Landing Gear Tail Skid)

ORIGIN: Convair initiated

REASON FOR CHANGE: Product improvement

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
0	0	0 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 11/20/61

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 26

Title: Specification Administrative Change (Revision to Auxiliary  
Landing Gear Tail Skid)

Origin: Convair initiated

Reason for Change: Product improvement

Description of Change:

Page 23, Paragraph 3.8.3 AUXILIARY LANDING GEAR (TAIL SKID):

Change the first line in the paragraph to read as follows:

From: "A retractable skid or ..... "

To: "A skid or ..... "

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: 0

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO. ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,064 DTD \_\_\_\_\_

CHANGE NO. 25

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Relocation of Emergency Transmitter)

ORIGIN: Convair initiated

REASON FOR CHANGE: To make emergency transmitter readily available under all conditions in compliance with FAA requirements.

### EFFECT ON WEIGHT \*

### EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

Negligible

Negligible

Negligible

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:



ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Air Asia Company Ltd.  
Change No. 25

Title: Specification Administrative Change (Relocation of  
Emergency Transmitter)

Origin: Convair initiated.

Reason for Change: To make emergency transmitter readily available  
under all conditions in compliance with FAA  
requirements.

Description of Change:

Page 78, Paragraph 3.17.3.5.4 EMERGENCY RADIO TRANSMITTER:

In the third line, change "aft left hand stowage compartment."  
to "pilots' compartment."

Effect on Weight Empty:	Negligible
Effect on Balance:	Negligible
Effect on Performance:	None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,063 DTD \_\_\_\_\_

CHANGE NO: 24

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Revision to Engine Specification)

ORIGIN: Convair initiated

REASON FOR CHANGE: To specify the G.E. Engine Specification under which engines will be supplied.

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
0	0	0 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 12/13/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:	AIRPLANES AFFECTED:
----------------------------	---------------------

SPECIAL PROVISIONS:	EFFECT ON PRICE PER AIRPLANE:
	RECURRING: _____
	NON-RECURRING: _____
	TOTAL: _____

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



Title: Specification Administrative Change (Revision to Engine Specification)

Origin: Convair initiated

Reason for Change: To specify the G.E. Engine Specification under which engines will be supplied.

Description of Change:

Page 2, Paragraph 2.2 - ENGINE SPECIFICATION:

Revise the paragraph as follows:

From: "General Electric Engine Specification E-723h dated 1 September 1959 shall apply".

To: "General Electric Engine Specification E-790 dated 11 July 1960 with Reverser Specification E-725e dated 11 July 1960 and Suppressor Specification E-731f dated 11 July 1960 shall apply".

Page 4, Paragraph 3.1.1.1 - PERFORMANCE:

In the ninth line, change "E-723h, dated 1 September 1959" to "E-790, dated 11 July 1960".

Page 101, Paragraph 3.23.2 - EQUIPMENT INTERCHANGEABILITY:

Under "a. Interchangeable Parts", add a double asterisk after "Engine (Quick Change) \*\*\*" and add the following to the bottom of Page 101:

"\*\* NOTE: Except for reverser cascades".

Page A-3, APPENDIX I-C, PROPULSION EQUIPMENT:

Revise the following item under "POWER PLANT EQUIPMENT" as follows:

From: "4 Engine, complete \*(Dry) Gen. Electric CJ-805-3B"

To: "4 Engine, complete \*(Dry) Gen. Electric CJ-805-3B,  
Spec. No. E-790  
dated 7-11-60".

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None

# C O N V A I R

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,062 DTD \_\_\_\_\_

CHANGE NO: 23

MODEL: 22-4 (Convair "880")

TITLE: **Specification Administrative Change (Addition of Static Inverter to Paragraph 3.16.2.4.1)**

ORIGIN: **Convair initiated**

REASON FOR CHANGE: **To specify that static inverter is being furnished**

EFFECT ON WEIGHT \*

EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

0

0

0

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

**None**

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 11/1/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

Title: Specification Administrative Change (Addition of Static Inverter to Paragraph 3.16.2.4.1)

Origin: Convair initiated

Reason for Change: To specify that static inverter is being furnished.

Description of Change:

Page 52, Paragraph 3.16.2.4.1 - POWER TRANSFER:

Add the following to the end of paragraph:

"A static inverter, connected to the battery, shall be provided for engine ground start when external a-c electrical power is not available"

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,061 DTD \_\_\_\_\_

CHANGE NO: 22

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Clarification of Cabin Ceiling Height)

ORIGIN: Convair initiated

REASON FOR CHANGE: To clarify cabin height in the area of the dropped ceiling.

EFFECT ON WEIGHT \*

EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

0

0

0

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 11/1/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



Title: Specification Administrative Change (Clarification of Cabin Ceiling Height.

Origin: Convair initiated

Reason for Change: To clarify cabin height in the area of the dropped ceiling.

Description of Change:

Page 86, Paragraph 3.19.3.1.1 - PASSENGER COMPARTMENT:

Revise the last sentence to read as follows:

"The clear ceiling height in the main cabin shall be approximately 85 inches at the airplane centerline except in the area of the dropped ceiling which shall be approximately 78 inches".

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,059 DTD \_\_\_\_\_

CHANGE NO: 20

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Revision to Paragraph 3.16.8.3.4 and to ADP Control Panel P/N)

ORIGIN: Convair initiated

REASON FOR CHANGE: To clarify the intent of the specification.

### EFFECT ON WEIGHT \*

### EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

0

0

0

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*[Signature]* 1/28/60  
ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

Title: Specification Administrative Change (Revision to Paragraph 3.16.8.3.4 and to ADF Control Panel P/N)

Origin: Convair initiated

Reason for Change: To clarify the intent of the specification

Description of Change:

Page 62, Paragraph 3.16.8.3.4 - READING LIGHTS:

Delete the last seven words in the fourth sentence, which reads as follows, and repunctuate sentence:

"and placarded to clearly indicate its function".

Page A-12, APPENDIX I-C, ELECTRONIC EQUIPMENT:

Revise the below item under "Control Panels" as follows:

<u>From:</u>	"2 Radio Compass (ADF)	Collins	614L-5"
<u>To:</u>	"2 Radio Compass (ADF)	Collins	614L-6"

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL \_\_\_\_\_ DTD \_\_\_\_\_

CHANGE NO: 19

MODEL: 22-4 (Convair "880")

TITLE: Manufacturer's Name and/or Part Number.

ORIGIN: Convair initiated

REASON FOR CHANGE: To show current part numbers, nomenclature and quantities of Appendix items

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*W. L. Clayton*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

Title: Manufacturer's Name and/or Part Number

Origin: Convair initiated.

Reason for Change: To show current part numbers, nomenclature and quantities of Appendix items.

Description of Change:

APPENDIX I-A, I-B and I-C EQUIPMENT:

Change or Add manufacturer's names, part numbers or quantities to Items noted so as to read as follows:

<u>Page</u> <u>No</u>	<u>Quan.</u> <u>Reqd.</u>	<u>Description</u>	<u>Mfg. No.</u>	<u>Part or</u> <u>Spec. No.</u>	<u>Total</u> <u>Weight</u>
--------------------------	------------------------------	--------------------	-----------------	------------------------------------	-------------------------------

FURNISHINGS

A-1	<u>From:</u>	4	Buffet		914.0
	<u>To:</u>	4	Buffet	Nordskog	914.0

FUEL SYSTEM EQUIPMENT

A-3	<u>From:</u>	6	Pump, Jettison		
		2	Pump, Dual Purpose Supply-Jettison	Thompson Prod.	
	<u>To:</u>	2	Pump, Jettison	J. C. Carter	6191-5
		2	Pump, Jettison	J. C. Carter	6191-6
		1	Pump, Jettison	J. C. Carter	6191-7
		1	Pump, Jettison	J. C. Carter	6191-8
		2	Pump, Dual Purpose Supply-Jettison (Housing)	Thompson Prod.	206700
		1	Pump, Dual Purpose Supply-Jettison (Motor Assy)	Thompson Prod.	206600-1
		1	Pump, Dual Purpose Supply-Jettison (Motor Assy.)	Thompson Prod.	206600-2



A-4

FLIGHT INSTRUMENTS

<u>From:</u>	*1 Indicator Longitudinal Trim	U. S. Gauge	SR-012A
	*1 Indicator, Flap Position (Dual)	Gen. Elec.	8DJ91LAB-Y1
<u>To:</u>	*1 Indicator Longitudinal Trim	U. S. Gauge	SRL-012A
	*1 Indicator, Flap Position (Dual)	Gen. Elec.	8DJ91LAB-Y1
			or 8DJ91LAB-1

SPERRY INTEGRATED FLIGHT SYSTEM

<u>From:</u>	1 Vertical Gyro	Sperry	617926-1
	1 Flight Director Computer (Z-5)	Sperry	615033-3
<u>To:</u>	1 Vertical Gyro	Sperry	2585297-2
	1 Flight Director Computer (Z-5)	Sperry	1780607

A-5

KOLLSMAN INTEGRATED FLIGHT INSTRUMENT SYSTEM

<u>From:</u>	*2 Altimeter and Scale Error Corrector Set	Kollsman	A32657-10-001
	*4 Indicator, Exhaust Gas (Temperature)	Gen. Elec.	8DJ100LAB
<u>To:</u>	*2 Altimeter and Scale Error Corrector Set	Kollsman	A32667-10-0
	*4 Indicator, Exhaust Gas (Temperature)	Gen. Elec.	8DJ100LAF

A-6

ENGINE INSTRUMENTS - FUEL SYSTEM

<u>From:</u>	*1 Indicator, Fuel Quantity Totalizer	Simmonds	
	2 Indicator, Fuel Quantity Counter		
	Pointer Type Tanks 1 & 4	Simmonds	
	2 Indicator Refuel Quantity (1 & 4)	Simmonds	
	2 Indicator Refuel Quantity (2 & 3)	Simmonds	
	2 Indicator Fuel Quantity Counter		
	Pointer Type Tanks 2 and 3	Simmonds	
	1 Indicator Fuel Quantity (CS)		
	2 Indicator, Fuel Quantity Refuel (CS)	Simmonds	
<u>To:</u>	*1 Indicator, Fuel Quantity Totalizer	Simmonds	393032-02929
	2 Indicator, Fuel Quantity Counter	Simmonds	383053-12919
	Pointer Type Tanks 1 & 4		
	2 Indicator, Refuel Quantity (1 & 4)	Simmonds	383093-049
	2 Indicator, Fuel Quantity Counter		
	Pointer Type Tanks 2 & 3	Simmonds	383053-129
	2 Indicator Refuel Quantity (2 & 3)	Simmonds	383093-049
	1 Indicator Fuel Quantity (CS)	Simmonds	383053-139
	2 Indicator Fuel Quantity Refuel (CS)	Simmonds	383093-094



AUTO PILOT TYPE SP-30

<u>From:</u>	1	Stabilization Computer	Sperry	1776002-3
	3	Amplifier, Servo	Sperry	619298-1
	1	Computer, Flight Control	Sperry	1776003-1
	1	Yaw Command Computer	Sperry	620134
	1	Relay Assembly	Sperry	1775387
<u>To:</u>	1	Stabilization Computer	Sperry	1776002-5
	2	Amplifier Servo Rudder Elevator	Sperry	619298-4
	1	Amplifier, Servo-Aileron	Sperry	619298-5
	1	Computer, Flight Control	Sperry	1776003-21
	1	Yaw Command Computer	Sperry	620134-3
	1	Relay Assembly	Sperry	1775387-3
	1	Surface Servo Elevator	Sperry	615743-03
	1	Surface Servo Aileron	Sperry	615743-10
	1	Trim Coupler	Sperry	1775390-7

A-7

FLIGHT INSTRUMENTS

<u>From:</u>	1	Roll Command Computer	Sperry	1775339-2
	1	Pitch Command Computer	Sperry	1775391-2
	1	Radio Coupler	Sperry	1775388
	1	Pressure Computer	Sperry	1775882-4
	1	Rack, Interlock	Sperry	1775392-1
	*1	Indicator, Automatic Pilot	Sperry	1776004-1
	1	Gyro, Vertical	Sperry	617926-1
	1	Trim Servo Sprocket and Bracket	Sperry	669352
	3	Bracket, Servo	Sperry	615144-01
	3	Servo Drive, Rudder	Sperry	615743-03
<u>To:</u>	1	Roll Command Computer	Sperry	1775339-3
	1	Pitch Command Computer	Sperry	1775391-4
	1	Radio Coupler	Sperry	1775388-4
	1	Pressure Computer	Sperry	1775882-10
	1	Rack, Interlock	Sperry	1775392-3
	*1	Indicator, Automatic Pilot	Sperry	1776004-5
	1	Gyro Vertical	Sperry	2585297-2
	1	Trim Servo Sprocket and Bracket	Sperry	1780310
	3	Bracket, Servo	Sperry	615144-01-1
	1	Servo Drive, Rudder	Sperry	615743-09

A-9

ELECTRICAL POWER EQUIPMENT

<u>Add:</u>	1	Static Inverter	Gen. Elec.	3S2060DV101A
	1	Transformer Rectifier External Power	Electronic Specialty	PS115

A-10

ELECTRONIC EQUIPMENTVHF NAVIGATION SYSTEM

<u>From:</u>	1 Antenna	Convair	
<u>To:</u>	1 Antenna L/H	Convair	30-35505-3
	1 Antenna R/H	Convair	30-35505-4

MARKER BEACON

<u>From:</u>	1 Receiver (1/4 ART)	Collins	51Z-2
<u>To:</u>	1 Receiver (1/4 ART) (AC Power)	Collins	51Z-2

VHF COMMUNICATION

<u>From:</u>	2 Transmitter	Collins	17L-7
	2 Receiver	Collins	51X-2
	1 Antenna (Fairing)	Convair	
	1 Antenna (Blade)	Microwave Radiation	
<u>To:</u>	2 Transmitter (AC Power)	Collins	17L-7
	2 Receiver (AC Power)	Collins	51X-2
	1 Antenna (Fairing)	Convair	22-30513
	1 Antenna (Blade)	Convair	22-31006-3

HF COMMUNICATION

<u>From:</u>	1 Antenna (Isolated Tail Cap)		
<u>To:</u>	1 Antenna (Isolated Tail Cap)	Convair	22-14900-1

A-11

ATC TRANSPONDER BEACON

<u>From:</u>	1 Antenna	Electronic	LB-147
<u>To:</u>	1 Antenna	Electronic Specialty	LB-147

WEATHER RADAR

<u>From:</u>	1 Transmitter-Receiver	Bendix	RDR-1B-1
<u>To:</u>	1 Transmitter- Receiver	Bendix	RDR-1B-2



A-11 DOPPLER NAVIGATION

<u>From:</u>	*1 Indicator	Bendix	INA-12A
<u>To:</u>	*1 Indicator	Bendix	INA-12B-1
<u>Add:</u>	1 Antenna Mount	Bendix	ADA-12C2

A-12 CONTROL PANELS (ELECTRONIC)

<u>From:</u>	1 Weather Radar	Gables	
	2 Radio Compass (ADF)	Collins	614L-5
	4 Audio Selector Panel	Gables	G-551
	3 Microphone Selector Panel		
	3 Public Address Panel		
	1 ATC Transponder Beacon (Dual)	Gables	G-554
	1 HF Comm (Dual)	Gables	
	1 Doppler Navigation	Gables	
<u>To:</u>	1 Weather Radar	Gables	G-1022
	2 Radio Compass (ADF)	Collins	614L-6
	4 Audio Selector Panel	Gables	G-567
	3 Microphone Selector Panel	Gables	G-802
1	1 Public Address Panel (Pilot)	Gables	G-746
	1 ATC Transponder Beacon (Dual)	Gables	G-565
	1 HF Comm (Dual)	Gables	G-1024
	1 Doppler Navigation	Gables	G-1023
<u>Add:</u>	1 Public Address Panel (Fwd Stewardess)	Gables	G-816
	1 Public Address Panel (Aft Stewardess)	Gables	G-815
	1 Radio Power	Gables	G-635
	1 Radio Freq. Chart (HF)	Gables	G-587

A-14 PRESSURIZATION, ANTI-ICING AND AIR CONDITIONING

<u>From:</u>	2 Compressor, ATM Driven Cabin	Ham. Standard	555150
	2 Evaporator, Freon	Ham. Standard	546300
<u>To:</u>	2 Compressor, ATM Driven Cabin	Ham. Standard	550150
	2 Evaporator, Freon	Ham. Standard	552268

A-15 LANDING GEAR EQUIPMENT

<u>From:</u>	8 Wheel, Main	Bendix	
	8 Brake, Main Wheel	Bendix	
	2 Wheel, Nose	Bendix	
	2 Brake, Nose Wheel	Bendix	
<u>To:</u>	8 Wheel, Main	Bendix	152888
	8 Brake, Main Wheel	Bendix	152889
	2 Wheel, Nose	Bendix	152061
	2 Brake, Nose Wheel	Bendix	152062



A-16

FURNISHINGS

<u>From:</u>	3 Toilet, Flushing Type Dis- posal Tank Enclosures Wash Stands and Hardware		
	4 Signs, "No Smoking-Fasten Seat Belt (Bilingual; English and Chinese)		
	3 Signs, "Lavatory, Occupied-Vacant" (Bilingual; English and Chinese)		
	3 Signs, "Return to Cabin" (Bilingual; English and Chinese)		
<u>To:</u>	1 Toilet, Flushing Type (Aft Lav L/H)	Monogram	2433
	1 Toilet, Flushing Type (Aft Lav R/H)	Precision	2434
	1 Toilet, Flushing Type (Fwd Lav		2483
	4 Signs, No Smoking-"Fasten Seat Belt" (Bilingual; English and Chinese)	Plastic Arts	22-93609
	3 Signs, Lavatory, "Occupied-Vacant" (Bilingual; English and Chinese)	Plastic Arts	22-93609
	3 Signs, "Return to Cabin" (Bilingual; English and Chinese)	Plastic Arts	22-93609

A-17

OXYGEN EQUIPMENT

<u>From:</u>	3 *Cylinder, High Pressure Oxygen (107 cu ft) (with gages)		
	4 *Bottle, Portable Oxygen (310 Liter)		
	3 Regulators (Crew Diluter Demand Type)		
	3 Valve-Selector Oxygen	Ewing Prod	16000
	3 Supplemental Oxygen Masks	Scott	Type A-1
	3 Smoke Masks	Scott	
<u>To:</u>	3 *Cylinder, High Pressure Oxygen (107 Cu. Ft.) (With Gages)	ZEP	ZC-268-1
	3 *Bottle, Portable Oxygen (310 Litr) (Pass. Compt.)	Scott	55-00C1A BF20B
	3 Regulators (Crew Diluter Demand Type)	ARO	14950-8
	3 Valve Selector Oxygen (Crew)	Ewing Prod.	16000
	3 Supplemental Oxygen Masks (Crew)	Scott	6849-2
	3 Smoke Masks (crew)	Scott	6849-9
<u>Add:</u>	1 Valve-Oxygen Line	Robbins	OV601-1F
	1 *Bottle Portable Oxygen (310 Liter)	Scott	6080-3
	1 Pressure Reducer (Crew)	Alar or Consoli- dated Controls	5758 311W56
	1 *Pair Asbestos Gloves	Davis	2214 FL
	2 Valve Auto Opening and Continuous Flow Regulators (Pass)	Condoliated	2620A1
		Controls	

A-17 (Cont) OXYGEN EQUIPMENT

Add: (Cont)

132	Oxygen Masks (Pass.)	ARO	C7040-1
10	Oxygen Masks (Pass.)	ARO	C7040-2
1	Restrictor-Fluid Flow Filter	Scott	21236
6	Oxygen Mask Assy (Pass. Compt).	Scott	5527

Effect on Weight Empty: None  
Effect on Balance: None  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,058 DTD \_\_\_\_\_

CHANGE NO: 18

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change (Revised C. G. Limits Graph)

ORIGIN: Convair initiated

REASON FOR CHANGE: To furnish an up to date C. G. Limits Graph.

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	0 INCH LB.
0	0	

EFFECT ON GUARANTEED PERFORMANCE: \*  
None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Albuquerque*  
*9/15/60*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_  
NON-RECURRING: \_\_\_\_\_  
TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR: SD

Air Asia Company Ltd.  
Change No. 18

Title: Specification Administrative Change (Revised C. G. Limits Graph)

Origin: Convair initiated

Reason for Change: To furnish an up to date C. G. Limits Graph.

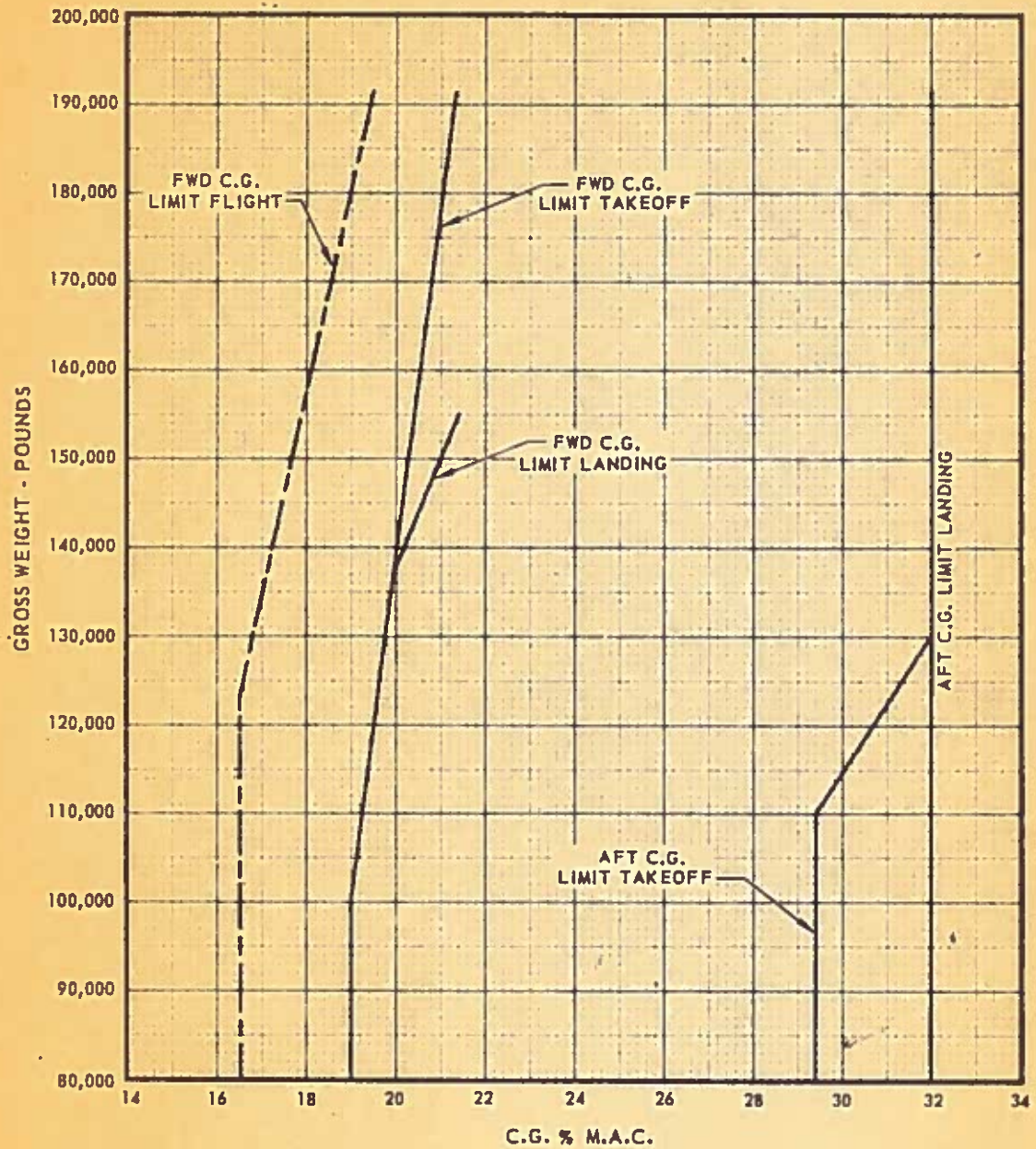
Description of Change:

Page 7a, C. G. DESIGN LIMITS:

Replace above illustration in the specification with Enclosure (A) which adds new aft C. G. Limit takeoff and landing.

Enclosure: (A) One copy Page 7a, C. G. LIMITS (Revised)

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None





# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,021 DTD 29 August 1960

CHANGE NO: 17

MODEL: 22-4 (Convair "880")

TITLE: Buffet No. 3 Support Structure, Additional Strengthening of

ORIGIN: Verbal request by Messers Herold and Gluskin of AACL on 26 August 1960

REASON FOR CHANGE: Customer request

### EFFECT ON WEIGHT \*

### EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

+31.0 lb

+31.0 lb

+38,564 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*A. Anger*  
9/12/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR: SD

Air Asia Company, Ltd.  
Change No. 17

Title: Buffet No. 3 Support Structure, Additional Strengthening of

Origin: Verbal request by Messers Herold and Gluskin of AACL on  
26 August 1960

Reason for Change: Customer request

Description of Change: .

Page A-1, APPENDIX I-C, CUSTOMER FURNISHED - CONVAIR INSTALLED:

Revise the below item under "Description" as follows:

From: "4 Buffet 914.0"

To: "4 Buffet 945.0"

Effect on Weight Empty: +31.0 pounds  
Effect on Balance: +38,564 inch-pounds  
Effect on Performance: None

The following shall not appear in the specification language:

This change proposes strengthening the support structure of  
Buffet No. 3 to accommodate a higher loaded weight of 743 pounds.

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304      DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.      MCL 12,020 DTD 10 August 1960

CHANGE NO: 16      MODEL: 22-4 (Convair "880")

TITLE: Electrical Connections to Buffets, Changes to

ORIGIN: Telecon, Convair representatives and Parks of Nordskog  
on 15 July 1960

REASON FOR CHANGE: To make electrical connections compatible with  
Customer furnished buffets.

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
+2.0 lb	+2.0 lb	+644 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND  
TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON  
PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Allogene*  
8/26/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Air Asis Company Ltd.  
Change No. 16

Title: Electrical Connections to Buffets, Change to

Origin: Telecon, Convair representatives and Parks of Nordskog,  
on 15 July 1960

Reason for Change: To make electrical connections compatible with  
Customer furnished buffets.

Description of Change:

This proposal has no effect on specification language.

Effect on Weight Empty:	+2.0 pounds
Effect on Balance:	+644 inch-pounds
Effect on Performance:	None



# CONVAIR

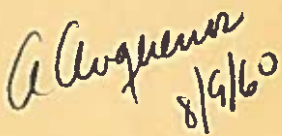
A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304                      DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company, Ltd.                      MCL 12,057 DTD \_\_\_\_\_

CHANGE NO: 15                      MODEL: 22-4 (Convair "880")

TITLE: <u>Specification Administrative Change (Inclusion of Food Tray Well Closing Panels)</u>		
ORIGIN: <u>Convair initiated</u>		
REASON FOR CHANGE: <u>To indicate in specification that food tray well closing panels will be provided for last row of first class seats and last row of coach seats.</u>		
EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY  <div style="text-align: center;">0</div>	OPER. WT. EMPTY  <div style="text-align: center;">0</div>	0 INCH LB.
EFFECT ON GUARANTEED PERFORMANCE: *  <div style="text-align: center;">None</div>		
* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL  ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:		<div style="text-align: center;">                   8/9/60                   ENGINEERING APPROVAL             </div>
LATEST DATE OF ACCEPTANCE:	AIRPLANES AFFECTED:	
SPECIAL PROVISIONS:		EFFECT ON PRICE PER AIRPLANE: RECURRING: _____ NON-RECURRING: _____ TOTAL: _____

ACCEPTED: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

CONVAIR: SD

Air Asis Company, Ltd.  
Change No. 15

Title: Specification Administrative Change (Inclusion of Food Tray Well Closing Panels)

Origin: Convair initiated

Reason for Change: To indicate in specification that food tray well closing panels will be provided for last row of first class seats and last row of coach seats.

Description of Change:

Page 81, Paragraph 3.19.1.1.6 PASSENGER SEATS:

Add the following after the eighth sentence which reads: "All passenger seats shall be equipped with receptacles for plug-in food trays":

"A food tray well closing panel shall be installed on the inboard seat back of last row first class seats and inboard seat back of last row coach seats."

Page A-16, APPENDIX I-C, FURNISHINGS:

Add the following items to the "Description List":

"2 Panels, Coach Food Tray Well Closing

2 Panels, First Class Food Tray Well Closing"

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Air Asia Company Ltd.

MCL 12,019 DTD \_\_\_\_\_

CHANGE NO: 14

MODEL: 22-4 (Convair "880")

TITLE: **Main System Hydraulic Pumps, Change to**

1.

ORIGIN: **Convair initiated**

REASON FOR CHANGE: **Product improvement**

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY <b>+31.0 lbs</b>	OPER. WT. EMPTY <b>+31.0 lbs</b>	<b>+23,091</b> INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*  
**None**

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Cloughen 7/20/60*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR: SD

Air Asia Company Ltd.  
Change No. 14

Title: Main System Hydraulic Pumps, Change to

Origin: Convair initiated

Reason for Change: Product improvement

Description of Change:

Page A-13, APPENDIX I-C, HYDRAULIC AND PNEUMATIC EQUIPMENT:

Revise the below item under "Description" as follows:

From: "4 Pump, Main System Ham. Standard"  
(Variable Displacement  
Type)

To: "4 Pump, Main System Vickers AS-61695-I  
(Variable Displacement  
Type)

Effect on Weight Empty: +31.0 lbs.  
Effect on Balance: +23,091 in/lbs.  
Effect on Performance: None

The following shall not appear in the Specification language:

The hydraulic pump will incorporate one electrical depressurization valve and one blocking valve. The bolt-on ports will be modified to suit the Model 22 installation, and the yoke blocked back to a 6 gpm rating in lieu of 10 gpm.

This proposal also deletes the four accumulators in the hydraulic return lines, since these accumulators are not required with the Vickers pump.

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

SPEC NO.: ZD-22-304 DATE: Rev. 9 December 1960  
CUSTOMER: Asiatic Aeronautical Co., Ltd. MCL 12,056 DTD 13 July 1960  
CHANGE NO: 13A MODEL: 22-4 ("Convair 880")

REASON FOR CHANGE: To add detail part numbers for the flight data recorder system. Avionics letter to P.O. dated 15 June 1960 and Revision to CCP 13

INCH LB.

*Adams* 12/12/60

DATE: \_\_\_\_\_

CONVAIR: SD

Asiatic Aeronautical Co. Ltd.  
Change No. 13A

Title: Specification Administrative Change, Waste King Flight Data Recorder, Revision of

Origin: Convair initiated

Reason for Change: To add detail part numbers for the flight data recorder system. Avionics letter to P.O. dated 15 June 1960. and Revision to CCP-13

Description of Change:

Page A-1, APPENDIX I-A - ELECTRONICS:

Change the below items as follows:

<u>From:</u>	"1 Flight Recorder	Waste King	5424	28.2
<u>To:</u>	1 Flight Data Recorder System Consisting of the following:	Waste King	5424-200	32.0
	1 Encoder (Trip and Date)	Waste King	10110	
	1 Magazine	Waste King	5427	
	1 Recording Unit	Waste King	10600-200	
	1 Acceleration Sensor	Waste King	5690	

Effect on Weight Empty: None

Effect on Balance: None

Effect on Performance: None



A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

SPEC NO.: ZD- 22-304 DATE: \_\_\_\_\_  
CUSTOMER: Asiatic Aeronautical Co., Ltd. MCL 12,016 DTD 26 May 1960  
CHANGE NO: 10 MODEL: 22-4 (Convair "880")

REASON FOR CHANGE: To define the actual design of the airplane.

①

0

0 INCH LB.

None

A. Augener  
6/22/60

ENGINEERING APPROVAL

**AIRPLANES AFFECTED:**

EFFECT ON PRICE PER AIRPLANE:

RECURRING:

**NON-RECURRING:**

TOTAL:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

DATE: \_\_\_\_\_

CONVAIR: SD

Asiatic Aeronautical Co., Ltd.  
Change No. 10

Title: Specification Administrative Change (Maximum Operational Altitude, Revision to)

Origin: Convair initiated

Reason for Change: To define the actual design of the airplane.

Description of Change:

Page 10, Paragraph 3.2.7 OPERATING ALTITUDE:

Change the paragraph to read as follows:

"The maximum operating altitude of the airplane shall be 41,000 feet, with an operating cabin pressure differential of 8.3 psi  $\pm$ .1 psi (See 3.20.3.1)."

Page 98, Paragraph 3.20.3.1 DESIGN DIFFERENTIAL PRESSURE:

In the second line, change "8.2" to "8.3 psi  $\pm$ .1 psi".

In the seventh line, change "8.2" to "8.3 psi  $\pm$ .1 psi".

Page 99a, ESTIMATED CABIN PRESSURE SCHEDULE:

The above illustration will be revised to show effects of this change.

Page A-7, APPENDIX I-C, INSTRUMENTS AND RELATED EQUIPMENT:

Change the below item as follows:

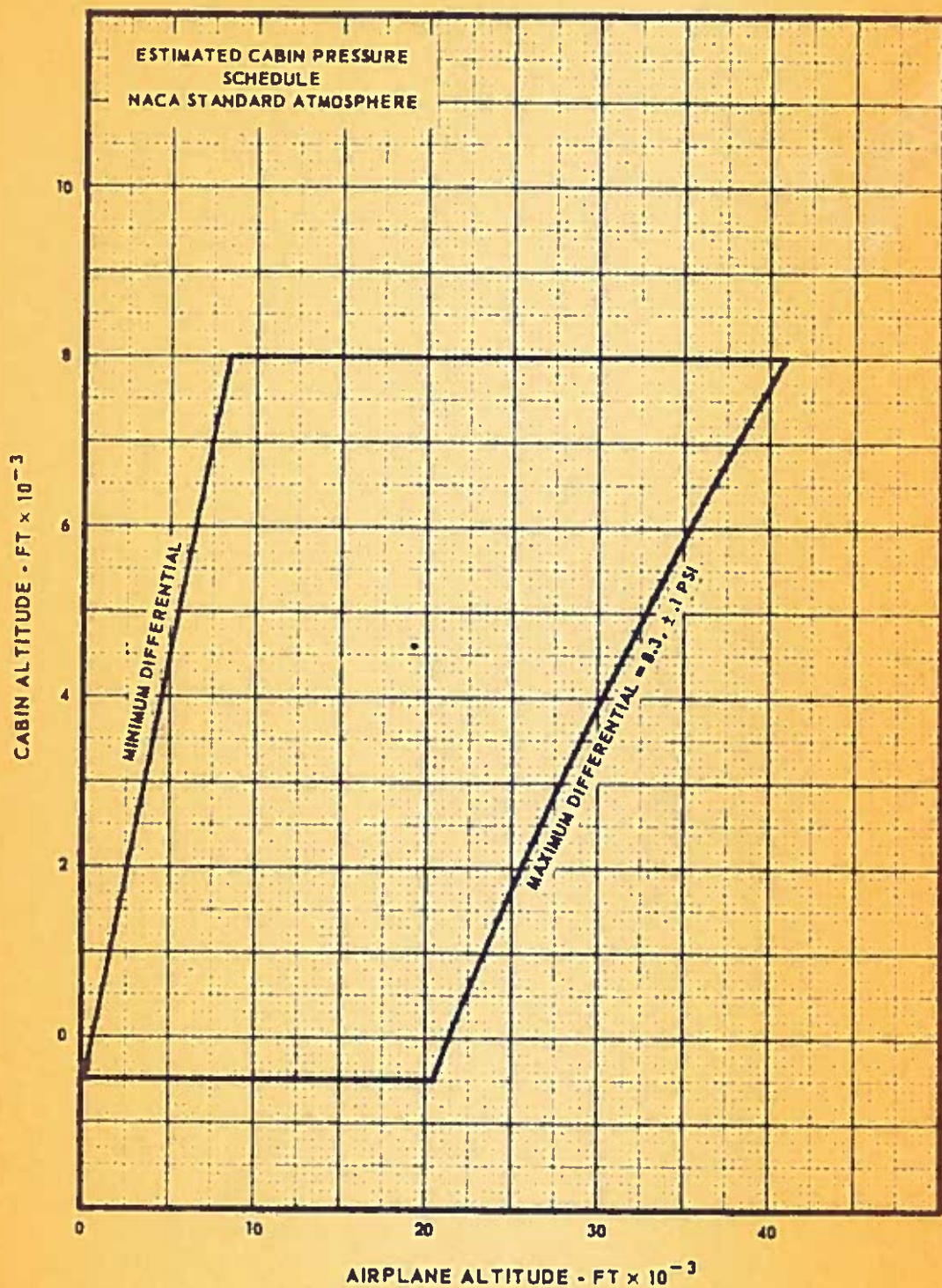
From: "1 Indicator, Cabin Altitude  
and Differential Pressure Kollsman B26395-10-004"

To: "1 Indicator, Cabin Altitude  
and Differential Pressure (P/N to be  
supplied)

Enclosure: (A) One copy of Page 99a - ESTIMATED CABIN PRESSURE SCHEDULE (Revised to show effects of the above change)

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None







A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

SPEC NO.: ZD- 22-304 DATE: \_\_\_\_\_  
CUSTOMER: Asiatic Aeronautical Co., Ltd. MCL 12,055 DTD 17 June 1960  
CHANGE NO. 9 MODEL: 22-4 (Convair "880")

REASON FOR CHANGE: To clarify intent of the Specification

INCH LB.

None

Allogene  
7/12/60

ENGINEERING APPROVAL

**AIRPLANES AFFECTED:**

EFFECT ON PRICE PER AIRPLANE:

TOTAL:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY:

DATE: \_\_\_\_\_

Page 40, Paragraph 3.12.9.13.2 - EMERGENCY REFUELING:

Change the last sentence to read as follows:

"Means shall be provided adjacent to each filler for connecting a ground wire from the refueling nozzle".

Page 52, Paragraph 3.16.2.4.1 - POWER TRANSFER:

Change the last sentence to read as follows:

"To energize the ac busses from the ground power, the four bus tie switches shall be in the closed position, the ground power connected and the external power switch placed in the "ON" position".

Page 53, Paragraph 3.16.5.1 - GENERAL:

Change the third sentence to read as follows:

"Wire current ratings shall be guided by AIA document Design Manual for Aircraft Electrical Installations as revised May 1, 1952".

Page 56, Paragraph 3.16.7.1.2 - FUSES:

Change the paragraph starting with the third sentence to read as follows:

"Permanent labeling adjacent to each active fuse shall show the fuse rating in amperes and the device and/or circuit function which the fuse protects. Space provisions shall be provided on all fuse panel to permit installation of approximately ten percent additional fuses after finalization of panel original design. A supply of spare fuse conforming to CAR requirements shall be located so as to be accessible in flight. Spare fuse stowage shall indicate fuse rating. Spare fuses shall be provided in the following quantities: 100 percent spares for 12 or less active fuses of same rating per airplane. For more than 12 active fuses of same rating per airplane 50 percent spares or a minimum of 12 spare fuses (whichever is greater)".

Page 57, Paragraph 3.16.7.2 - PROTECTOR PANELS:

Change the last two sentences to read as follows:

"Space provisions including mounting holes for approximately ten percent additional circuit breaker shall be provided for the combined group of flight deck circuit breaker panels after finalization of panel original design".



Page 65, Paragraph 3.16.11.1 - LANDING GEAR AND STABILIZER WARNING HORN:

Change the last subparagraph to read as follows:

"When the airplane is on the ground and any one of the thrust levers is advanced to takeoff position, the horn will operate intermittently if the speed brakes are not retracted. When the airplane is on the ground and any two or more of the thrust levers are advanced to takeoff position, the horn will operate intermittently if the stabilizer and/or the flaps are not in the correct takeoff range".

Page 67, Paragraph 3.16.14 - BOOSTER COIL:

Delete the entire paragraph and revise heading to read:

BOOSTER COIL: Not applicable.

Page 72, Paragraph 3.17.1.6 - RADIO JUNCTION PANELS:

Change last sentence to read as follows:

"All terminals in terminal strips shall be the steel nonrotating type, shall remain secured to the strips when terminal connections are removed and shall provide for removal of broken studs with a minimum of disruption of adjacent wiring".

Page 89, Paragraph 3.19.4.1.2 - SHUTOFF VALVES:

Change the paragraph to read as follows:

"Shutoff valves, electrically actuated by one handle located in the pilot compartment shall be provided for the fuel, hydraulic and bleed air systems of each engine. (Reference 3.12.9.7.3, 3.15.1.6 and 3.16.16.)"

Page 102, Paragraph 3.23.2 - EQUIPMENT INTERCHANGEABILITY:

Change the following items in the Equipment List:

From: Crew and Passenger Seat Back Cushions and Arm Rest Covers.

To: Passenger Seat Assembly  
Pilot and Copilot Seat Assembly  
Flight Engineer Seat Assembly  
Observer Seat Assembly

Page A-7 - APPENDIX I-C INSTRUMENTS AND RELATED EQUIPMENT:

Change the following items:



CONVAIR: SD

Asiatic Aeronautical Co., Ltd  
Change No. 9

Page 4 of 4

<u>From:</u>	1	Indicator Dual Cabin Supercharger Air Flow	Ham. Standard	537325
<u>To:</u>	1	Indicator, Dual Cabin Supercharger Air Flow	Weston	185249

Page A-8 APPENDIX I-C INSTRUMENTS AND RELATED EQUIPMENT:

Change the following item:

<u>From:</u>	1	Indicator, Hydraulic Fluid Quantity (Dual)	Simmonds	393028-01645
<u>To:</u>	1	Indicator, Hydraulic Fluid Quantity (Dual)	Liquidometer	EA148ANH-99H

Effect on Weight Empty:	Neg.
Effect on Balance:	Neg.
Effect on Performance:	None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304      DATE: \_\_\_\_\_  
 CUSTOMER: Asiatic Aeronautical Co., Ltd.      MCL 12,054      DTD 10 June 1960  
 CHANGE NO.: 8      MODEL: 22-4 (Convair "880")

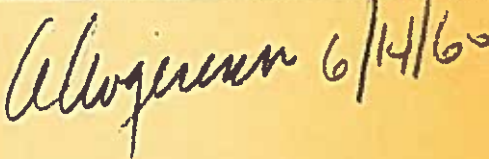
TITLE: Specification Administrative Change (Render Engine Overheat Lights Inoperative)

ORIGIN: Convair initiated

REASON FOR CHANGE: To prevent warning light indication when engines are started or during takeoff.

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	Neg.      INCH LB.
Neg.	Neg.	

EFFECT ON GUARANTEED PERFORMANCE: \*  
None

* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL  ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:	<div style="font-size: 1.5em; font-family: cursive;">  </div> <p>6/14/60</p> <p>ENGINEERING APPROVAL</p>
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LATEST DATE OF ACCEPTANCE:	AIRPLANES AFFECTED:
----------------------------	---------------------

SPECIAL PROVISIONS:	EFFECT ON PRICE PER AIRPLANE: RECURRING: _____ NON-RECURRING: _____ TOTAL: _____
---------------------	---

ACCEPTED: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

CONVAIR: SD

Asiatic Aeronautical Co.,  
Change No. 8

Title: Specification Administrative Change (Render Engine Overhead  
Lights Inoperative)

Origin: Convair initiated

Reason for Change: To prevent warning light indication when engines  
are started or during take-off.

Description of Change:

The following has no effect on the specification language:

The engine overheat lights shall be rendered inoperative.

Page 43a, PILOT'S AND COPILOT'S INSTRUMENT PANEL:

Revise above illustration to reflect intent of this change.

Effect on Weight Empty:	Negligible
Effect on Balance:	Negligible
Effect on Performance:	None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304 DATE: \_\_\_\_\_

CUSTOMER: Asiatic Aeronautical Co. Ltd. MCL 12,053 DTD 9 June 1960

CHANGE NO: 7 MODEL: 22-4 ("880")

TITLE **Specification Administrative Change (Speed Brake Warning Horn Addition of)**

ORIGIN **Convair Initiated**

REASON FOR CHANGE **Specification correction**

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	
0	0	0 INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*W. J. ...*  
*6/9/60*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

CONVAIR: SD

Asiatic Aeronautical Co. Ltd.  
Change No. 7

Title: Specification Administrative Change (Speed Brake Warning Horn, Addition of)

Origin: Convair initiated

Reason for Change: Specification Correction.

Description of Change:

Page 66, Add the following new paragraph:

3.16.11.1.2 - SPEED BRAKE WARNING HORN: An intermittent warning horn shall be provided to sound whenever the spoiler are not retracted and any one thrust lever is advanced beyond the 92 percent rpm position.

Effect on Weight Empty: 0  
Effect on Balance: 0  
Effect on Performance: None



Title: Specification Administrative Change (Specification Clarification and Corrections)

Origin: Convair initiated

Reason for Change: To clarify intent of the specification.

Description of Change:

Page 11, Paragraph 3.4.2 - DESIGN SPEEDS (EQUIVALENT AIR SPEED):

Delete (EQUIVALENT AIR SPEED) from above paragraph title and add the following after the paragraph title:

"The airplane shall be designed to be operated at the following equivalent airspeeds:"

Add the following to the end of the paragraph:

"The airplane shall be placarded to be operated at the following indicated airspeeds:

Operating speed (flaps full down)	195 K or M = 0.40
Operating speed (flaps 3/4 down)	220 K or M = 0.50
Operating speed (flaps 1/2 down)	245 K or M = 0.60
Operating speed (main landing gear extension)	375 K or M = 0.89
Operating speed (nose landing gear extension)	320 K or M = 0.83
Operating speed (landing gear retraction)	270 K or M = 0.70
Operating speed (leading edge device extension)	245 K or M = 0.60"

Page 38, add the following new paragraph:

"3.12.9.7.8 - DEFUEL VALVES: Two defuel valves shall be controlled from the pilot compartment. The valves shall be electrically actuated and located between the engine crossfeed line and the refuel manifolds. Provisions for electrical indication of opening shall be incorporated in each valve by means of an indicator light, which shall be "ON" when the valve is open".



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE:

CUSTOMER: Asiatic Aeronautical Co., Ltd.

MCL 12,008 DTD Rev. 29 March 1

CHANGE NO: 6

MODEL: 22-4 (Convair "880")

TITLE: Interior Trim, Revision to

ORIGIN: AACL Initiated - Reference AACL Letter SA/P-59-160 dated 20, December 1959

REASON FOR CHANGE: Customer Request

### EFFECT ON WEIGHT \*

### EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

+13.0 lbs.

+13.0 lbs.

+6614

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Alloguen*  
6/10/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING:

NON-RECURRING:

TOTAL:

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

Title: Interior Trim, Revision to

Origin: AACL Initiated - Reference AACL Letter SA/P59-160  
dated 20 December

Reason for Change: Customer Request

Description of Change:

Page A-1, APPENDIX I-A - FURNISHINGS

Change the below items as follows:

<u>From:</u>	AR Interior Furnishings Items (Medalion, Plaques, such as Dragon, etc.)	200.0
<u>To:</u>	AR Interior Furnishings Items (Such as, Medallions, Plaques, Dragons, etc.)	160.0

Page A-19 APPENDIX I-D - FURNISHINGS UNIT WEIGHTS

Change the below items as follows:

<u>From:</u>	Cabin Floor Covering (including under Carpet Pad	53.0 oz/sq yd
	Buffet Entryway and Lavatory Floor Covering-Fwd	32.0 oz/sq yd
	(Total)	
	Buffet Entryway and Lavatory Floor Covering Aft	44.0 oz/sq yd
<u>To:</u>	Cabin Floor Covering (including under-carpet pad	57.0 oz/sq yd
	Buffet Entryway and Lavatory Floor Covering- Fwd (Total)	57.0 oz/sq yd
	Buffet Entryway and Lavatory Floor Covering- Aft (Total)	57.0 oz/sq yd

Effect on Weight Empty:	+13.0 lbs
Effect on Balance:	+6,614 inch-lbs
Effect on Performance:	None



The following has no effect on the specification language and consists of installing the following items as described in the Customer's Interior Finish Specification

1. Install carpeting in forward and aft entryway of a different color than the main passenger compartment.
2. Install overhead grill work and bulkhead trim for coat divider partition and other partitions at station 403 and 1224.
3. Install laminated printed material for window blinds.
4. Anodize metal surfaces in lieu of bare aluminum finish on interior items previously agreed upon.



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Asiatic Aeronautical Co., Ltd.

MCL 12,014

DTD 18 May 1960

CHANGE NO: 5

MODEL: 22-4 (Convair "880")

TITLE: Fabric Reinforced Tires, Change to

ORIGIN: Convair and AACL Initiated

REASON FOR CHANGE: Product Improvement

EFFECT ON WEIGHT \*

EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

+23.0 lbs.

+23.0 lbs.

+ 20,194

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

None

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND  
TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON  
PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Alloguerra*  
*6/14/60*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

CONVAIR: SD

Asiatic Aeronautical Co.,  
Change No. 5

Title: Fabric Reinforced Tires, Change to

Origin: Convair and AACL initiated

Reason for Change: Product improvement

Description of Change:

Page A-14, APPENDIX I-C LANDING GEAR EQUIPMENT

Change The below items in the Equipment List as follows:

From: "8 Tire, Main Wheel (39 x 13) U. S. Rubber  
(Type VII 22 Ply Rating-Skid  
Depth .25 inches)

To: "8 Tire, Main Wheel (39 x 13)  
Type VII 22 Ply Rating, Fabric  
Reinforced Tread, Skid Depth  
.35 inches) U. S. Rubber

Effect on Weight Empty: -23.0 lbs.  
Effect on Balance: -20,194 in. lbs.  
Effect on Performance: None



# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Asiatic Aeronautical Co., Ltd.

MCL 12,015 DTD 18 May 1960

CHANGE NO: 4

MODEL: 22-4 (Convair "880")

TITLE: Specification Administration Change (Specification Correction)

ORIGIN: Convair Initiated

REASON FOR CHANGE: Memo R. R. Hoover to F. S. Chambers dated 16 May 1960

EFFECT ON WEIGHT \*

EFFECT ON BALANCE \*

GUAR. WT. EMPTY

OPER. WT. EMPTY

NONE

NONE

NONE

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

NONE

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*W. J. Hoover*  
6/10/60

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED: \_\_\_\_\_

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR-SD

Asiatic Aeronautical Co., Lt  
CHANGE No. 4

TITLE: Specification Administrative Change  
(Specification Correction)

ORIGIN: Convair Initiated

REASON FOR CHANGE: Memo R. R. Hoover to F. S. Chambers  
dated 16 May 1960

DESCRIPTION OF CHANGE:

Page 27, Paragraph 3.10.2.1 Lift and Drag Increasing Device Systems

DELETE: The seventh sentence in the paragraph which  
reads as follows:

"Means shall be provided to warn the pilot  
that the flaps are extended and the airplane  
is operating at a speed that is in excess of  
the placard speed for that particular flap  
setting."

Effect on Weight Empty:	None
Effect on Balance:	None
Effect on Performance:	None

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD-22-304

DATE: \_\_\_\_\_

CUSTOMER: Asiatic Aeronautical Co., Ltd.

MCL 12,052 DTD 27 May 1960

CHANGE NO: 3

MODEL: 22-4 (Convair "880")

TITLE: Specification Administrative Change  
(Specification Clarification)

ORIGIN: Convair Initiated

REASON FOR CHANGE: For Specification Clarification and Correction

### EFFECT ON WEIGHT \*

### EFFECT ON BALANCE \*

QUART. WT. EMPTY

OPER. WT. EMPTY

NONE

NONE

NONE

INCH LB.

EFFECT ON GUARANTEED PERFORMANCE: \*

NONE

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND  
TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON  
PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*Alloguena*  
*6/10/60*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_



CONVAIR-SD

Asiatic Aeronautical Co., Ltd.  
Change No. 3

TITLE: Specification Administrative Change  
(Specification Clarification)

ORIGIN: Convair Initiated

REASON FOR CHANGE: For Specification Clarification and Correction

DESCRIPTION OF CHANGE:

Page 81, Paragraph 3.19.1.1.6 Passenger Seats:

REVISE: The tenth sentence in the paragraph to read as follows:

FROM: "A ratchet type footrest shall be attached to each passenger seat except for the last row of first class and coach seats."

TO: "A ratchet type footrest shall be attached to each passenger seat."

Page 92, Paragraph 3.19.7.2 Emergency Transmitter:

CHANGE: Change Paragraph Reference at end of sentence as follows:

FROM: " 3.17.3.5.3"

TO: " 3.17.3.5.4"

Effect on Weight Empty:	None
Effect on Balance:	None
Effect on Performance:	None



*Specular*  
*Cost*

# CONVAIR

A DIVISION OF GENERAL DYNAMICS CORPORATION  
SAN DIEGO, CALIFORNIA

## COMMERCIAL CHANGE PROPOSAL

SPEC NO.: ZD- 22-304

DATE: \_\_\_\_\_

CUSTOMER: Asiatic Aeronautical Co. Ltd.

MCL 12,051 DTD \_\_\_\_\_

CHANGE NO: 1

MODEL: 22-4 (Convair "880")

TITLE Specification Administrative Change (Delete Color Coding and Directional arrows from Engine and Pod and Pylon Fluid System Hose)

ORIGIN: Convair Initiated

REASON FOR CHANGE: General Electric states that these features are unnecessary

EFFECT ON WEIGHT *		EFFECT ON BALANCE *
GUAR. WT. EMPTY	OPER. WT. EMPTY	0 INCH
0	0	

EFFECT ON GUARANTEED PERFORMANCE: \*

\* NEGLIGIBLE CHANGES WILL BE ACCUMULATED AND TOTALS REFLECTED IN A FUTURE CHANGE PROPOSAL

ACCEPTANCE OF THIS CHANGE IS DEPENDENT UPON PRIOR ACCEPTANCE OF THE FOLLOWING CHANGES:

*W. J. Carlson*  
*4/25/60*

ENGINEERING APPROVAL

LATEST DATE OF ACCEPTANCE:

AIRPLANES AFFECTED:

SPECIAL PROVISIONS:

EFFECT ON PRICE PER AIRPLANE:

RECURRING: \_\_\_\_\_

NON-RECURRING: \_\_\_\_\_

TOTAL: \_\_\_\_\_

ACCEPTED:

CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP.

BY: \_\_\_\_\_

DATE: \_\_\_\_\_